

**TUNING CONTROL PARAMETERS OF VIBRATION REDUCTION AND MOTION  
CONTROL SYSTEMS FOR FABRICATION EQUIPMENT AND ROBOTIC SYSTEMS**

Abstract

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The invention is directed to acquiring and processing parameters used to adjust and tune a controller used, for example, to govern and compensate for motion, including vibrations and disturbances, in a physical system, such as a piece of manufacturing equipment. The invention  
5 may also be used to control, for example, a robot or other spatially dependent machine. Included in the invention are systems and methods for generating a controller, and for controlling motion in a physical system or apparatus.

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